

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 October 2004 (28.10.2004)

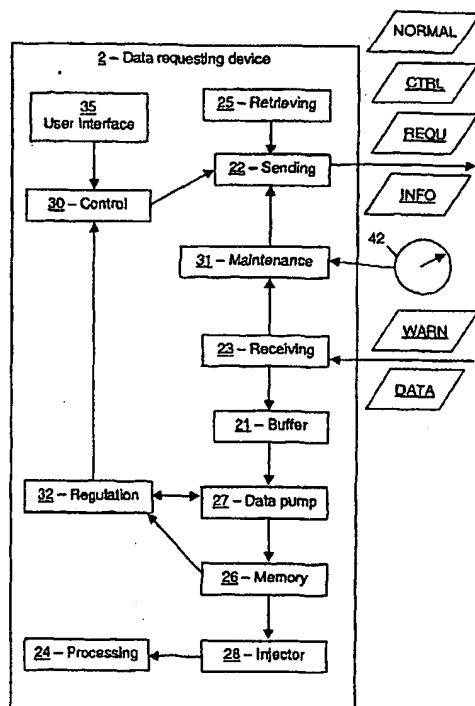
PCT

(10) International Publication Number  
**WO 2004/093452 A3**

- (51) International Patent Classification<sup>7</sup>: H04N 7/173 (74) Agent: KERBER, Thierry; THOMSON, 46 quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).
- (21) International Application Number: PCT/EP2004/050566 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 19 April 2004 (19.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03290954.1 17 April 2003 (17.04.2003) EP
- (71) Applicant (for all designated States except US): THOMSON LICENSING SA [FR/FR]; 46 quai Alphonse Le Gallo, F-92100 Boulogne-Billancourt (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GALLOU, Gilles [FR/FR]; 10 rue de la Timoniere, F-35690 Acigné (FR). HEIJNEN, Henk [FR/FR]; 1 rue Saint John Perse, F-35340 Liffre (FR). MAZZANTE, Angelo [FR/FR]; 27, allée des Bruyeres, F-35235 Thorigny-Fouillard (FR).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: DATA REQUESTING AND TRANSMITTING DEVICES AND PROCESSES



(57) Abstract: The present invention concerns data requesting and transmitting devices and processes. It relates notably to a data requesting device (2) from a data server (10), comprising means for sending (22) requests (REQU) of determined data to the server, means for receiving (23) streamed data (DATA) from that server and for providing said data to processing means (24), and means for producing (30) pause control signals (XOFF), intended for pausing data streaming, and for triggering their sending to the server. The requesting device comprises means for generating (31) normal state signals (NORMAL), intended to the server for testifying normal operation at the requesting device, and for triggering periodic transmission of those signals to the server. Application to VOD.

WO 2004/093452 A3



— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:  
23 December 2004

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/050566A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N7/173

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 822 524 A (HUANG SHIOW-LAANG ET AL) 13 October 1998 (1998-10-13) figure 1 abstract column 4, line 65 - column 6, line 54	1-15
Y	US 5 870 134 A (BARAN PAUL ET AL) 9 February 1999 (1999-02-09) column 1, line 15 - line 35 ----- -/--	1-15

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*S\* document member of the same patent family

Date of the actual completion of the international search

6 October 2004

Date of mailing of the international search report

18/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

De la Peña, J

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/050566

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SCHULZRINNE H.; ET AL: "Real Time Streaming Protocol (RTSP)" "Online!" 3 March 2003 (2003-03-03), pages 1-106, XP002299366 IETF INTERNET-DRAFT Retrieved from the Internet: URL: <a href="http://www.rtsp.org/2003/drafts/draft03/draft-ietf-mmusic-rfc2326bis-03.pdf">http://www.rtsp.org/2003/drafts/draft03/draft-ietf-mmusic-rfc2326bis-03.pdf</a> 'retrieved on 2004-10-06! Section 13.37</p> <p>-----</p>	1-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050566

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5822524	A	13-10-1998	NONE	
US 5870134	A	09-02-1999	AU 6344598 A	22-09-1998
			WO 9839921 A1	11-09-1998
			US 6075972 A	13-06-2000